

# SEAWATCH 7102

## VHF/FM 3 Channel Watch Receiver



The newest model to the SEAWATCH product group, the 7102 (former # 7001VR3) is designed to provide independent, real-time aural monitoring of three (3) VHF FM Marine voice channels. This model incorporates three separate VHF FM receivers; one pre-tuned to Marine channel 13, a second pre-tuned to Marine channel 16, and the third can be tuned and set to any USA/Int'l Marine channel. Front panel controls include squelch and volume for each receiver and each can be externally programmed to any USA/Int'l Marine channel. Front panel controls include squelch and volume for each receiver and channel selection for the tunable receiver. Indicators include Acquisition of Signal (AOS) and Loss of Signal (LOS) with red/green LEDs for each receiver and a three-digit channel display for the tunable receiver.

The receivers are housed in a compact trunnion-mounted box designed for table top, overhead or bulkhead mounting. The standard antenna connection is a loss compensated single antenna input. The 7102 requires 13.6 VDC nominal power with a Dimmer Control and is also available with a power adaptor for 120 VAC applications. External 4 ohm speakers are required and optional 24VDC or 120VAC power supplies are available.

### Front Panel:

- Squelch control for Receiver 1
- Volume control for Receiver 1
- AOS/LOS indicator for Receiver 1
- Squelch control for Receiver 2
- Volume control for Receiver 2
- AOS/LOS indicator for Receiver 2
- Squelch control for Receiver 3
- Volume control for Receiver 3
- AOS/LOS indicator for Receiver 3

### Rear Panel:

- Audio Output for Receiver 1
- VDR Output for Receiver 1
- Audio Output for Receiver 2
- VDR Output for Receiver 2
- Audio Output for Receiver 3
- VDR Output for Receiver 3

... Designed for vessel safety, routine monitoring and Public Safety enforcement organizations.



# SEA 7102\* Specifications

\*Former model # 7001VR3.

## GENERAL

### **Input Voltage:**

12 VDC +30% - 10%  
(13.8V nominal)  
Negative ground

### **Dimensions**

7"W x 2.2"H x 8.6"D

### **VDR and Audio Line Output:**

600 Ohm Balanced or  
Un-balanced  
RX line out @ 0.775V RMS

### **Audio Output:**

4 W nominal

### **Audio Distortion:**

Less than 10%

### **Input /Output Ports:**

RS-232 program Port,  
Balanced or Un-balanced Audio

### **Number of Channels options:**

All USA, Canadian and  
International Maritime VHF  
Channels

## RECEIVER 1

### **Frequency:**

156.650 MHz (pre programmed)  
Marine Channel 13

### **Frequency Range:**

155 to 163 MHz

### **Sensitivity:**

Less than .35uV for 12dB  
SINAD  
Less than .45uV for 20dB

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

## RECEIVER 2

### **Frequency:**

156.800 MHz (pre programmed)  
'Marine Channel 16

### **Frequency Range:**

155 to 163 MHz

### **Sensitivity:**

Less than .35uV for 12dB  
SINAD  
Less than .45uV for 20dB

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

## RECEIVER 3

### **Frequency Range:**

155 to 163 MHz

### **Sensitivity:**

Less than .35uV for 12dB  
SINAD  
Less than .45uV for 20dB

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

## SEA COM CORPORATION

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